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Association between work duration and noise-induced hearing loss on train drivers and train driver assistants in Bandung, Indonesia

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Noise Induced Hearing Loss (NIHL) is a sensorineural hearing loss caused by noise exposure with intensity over 85 dB and often happens at workers. Train drivers and train driver assistants are one type of work exposed high intensity of noise from locomotive. This study aims to know the relationship between working periods and Noise Induced Hearing Loss on train drivers and train drivers assistants in PT. Kereta Api Indonesia, Bandung, Indonesia. This study is an observational quantitative research with cross-sectional design using consecutive sampling. Subjects are train drivers and their assistants of PT. Kereta Api Indonesia. On subject of study conducted anamnesis, otoscopic examination and pure tone audiometry. Results are analyzed by chi-square test. From 44 people of subjects, there are 2 people NIHL who have worked less than 10 years, 4 people NIHL with working period 10-19 years and 5 people NIHL with working period more than 20 years. Result was analyzed by chi-square and result of p-value is 0.007 ($p < 0.05$). From this study, we conclude that there is relation between working period enhancements with noise induced hearing loss on train drivers and train drivers' assistants in PT. Kereta Api Indonesia.

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